CLAIMS

What is claimed is:

- 1 1. A fiber reinforced plastic article comprising:
- 2 a liner;
- at least one single material fiber layer wound on the liner; and
- 4 at least one hybrid fiber layer wound on the single material fiber layer, the at least
- 5 one single fiber layer and the at least one hybrid fiber layer impregnated with resin.
- 1 2. The article as defined in claim 1 wherein the liner comprises thermoplastic tubing.
- 1 3. The article as defined in claim 1 wherein the at least one single material fiber
- 2 layer comprises glass fiber.
- 1 4. The article as defined in claim 1 wherein the at least one single material fiber
- 2 layer comprises one selected from the group of glass, carbon and aramid.
- 1 5. The article as defined in claim 1 wherein the at least one hybrid fiber layer
- 2 comprises glass fiber and carbon fiber, each of the glass and carbon making up about 50
- 3 percent by volume of the composite fiber layer.
- 1 6. The article as defined in claim 1 wherein the resin comprises thermoset resin.
- 1 7. The article as defined in claim 1 wherein the resin comprises thermoplastic resin
- 1 8. The article as defined in claim 1 wherein the resin comprises ceramic resin.

- 1 9. The article as defined in claim 1 wherein the resin comprises metallic resin.
- 1 10. The article as defined in claim 1 further comprising a plurality of hybrid fiber
- 2 layers wound successively on top of the at least one single fiber layer, each hybrid fiber
- 3 layer wound in an opposed lay direction to the previously wound hybrid fiber layer.
- 1 11. A method for making a wound fiber reinforced plastic article, comprising:
- winding at least one single material fiber layer over a liner; and
- winding at least one hybrid fiber layer over the at least one single material fiber
- 4 layer, the at least one single material fiber layer and the at least one hybrid fiber layer
- 5 impregnated with resin.
- 1 12. The method as defined in claim 11 further comprising winding a plurality of
- 2 hybrid fiber layers on top of the at least one hybrid fiber layer, each of the plurality of
- 3 hybrid fiber layers wound in an opposed lay direction to the previous hybrid layer.
- 1 13. The method as defined in claim 11 wherein the liner comprises thermoplastic
- 2 tubing.
- 1 14. The method as defined in claim 11 wherein the at least one single fiber layer
- 2 comprises glass fiber.
- 1 15. The method as defined in claim 11 wherein the at least one single material fiber
- 2 layer comprises one selected from the group of glass, carbon and aramid.

- 1 16. The method as defined in claim 11 wherein the at least one hybrid fiber layer
- 2 comprises glass fiber and carbon fiber, each of the glass and carbon making up about 50
- 3 percent by volume of the composite fiber layer.
- 1 17. The method as defined in claim 11 wherein the resin comprises thermoset resin,
- 2 the method further comprising heat curing the resin.
- 1 18. The method as defined in claim 11 wherein the resin comprises thermoplastic
- 2 resin, the method further comprising heat consolidation of the resin.
- 1 19. The method as defined in claim 11 wherein the resin comprises ceramic resin, the
- 2 method further comprising heat curing of the resin.
- 1 20. The method as defined in claim 11 wherein the resin comprises metallic resin, the
- 2 method further comprising heat consolidation of the resin.
- 1 21. The method as defined in claim 11 wherein at least one of the at least one single
- 2 material fiber layer and the at least one hybrid fiber layer is impregnated with resin prior
- 3 to the winding.